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[54] COMPOSITION FOR BINDING BIOACTIVE SUBSTANCES

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ABSTRACT

An acrylic-acid- based photopolymerizable composition is prepared which is capable of binding bioactive substances after being photopolymerized. The composition may be applied as a coating on a carrier substrate, photopolymerized and a bioactive substance fixed thereto. The composition adheres well to any usual carrier substrates, and its degree of hydrophilicity and permeability can be adapted to needs. The composition contains acrylic acid, a photoinitiator which is an aromatic ketone compound, a photopolymerization activator and adhesion promotor which is an amino-alcohol, acrylate or methacrylate, and a copolymerizable olefinic monomer which contains a reactive functional group capable of binding bioactive substances. The olefinic monomer is preferably N-hydroxysuccinimide acrylate, N-hydroxysuccinimide amidocaproate, epoxypropyl acrylate or 2-isocyanato-ethyl acrylate.

19 Claims, No Drawings